

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

Listing of Claims:

1-8. (Canceled)

9. (Previously amended) A laser processing machine for processing workpieces using a laser beam, the laser processing machine comprising:
 a telescope for widening and focusing a laser beam, the telescope comprising:
 an ellipsoidal mirror having a first axis of rotation and a first surface that lies on an ellipse having two foci; and
 a paraboloidal mirror having a second axis of rotation that is parallel to the first axis of rotation and a second surface that lies on a parabola having a focus that coincides with one of the foci of the ellipse; and
 a mirror positioned to adjust an optical axis of a laser beam entering the telescope parallel to an optical axis of a laser beam exiting the telescope.

10. (Previously presented) The laser processing machine of claim 9, wherein the second axis of rotation is collinear with the first axis of rotation.

11. (Previously presented) The laser processing machine of claim 9, wherein the telescope is adapted for movement parallel to the optical axis of the laser beam that enters the telescope without altering an alignment of the laser beam entering the telescope.

12. (Previously presented) The laser processing machine of claim 9, wherein the ellipsoidal mirror and the paraboloidal mirror are fixed in position relative to each other.

13. (Previously presented) The laser processing machine according to claim 12, further comprising a common carrier element upon which the ellipsoidal mirror and the paraboloidal mirror are mounted in a fixed relationship to each other.

14. (Previously presented) The laser processing machine of claim 9, wherein the mirror positioned to adjust an optical axis of a laser beam entering the telescope is a planar mirror.

15. (Previously presented) A telescope for widening and focusing a laser beam, the telescope comprising:

an ellipsoidal mirror having a first axis of rotation and a first surface that lies on an ellipse having two foci;

a paraboloidal mirror having a second axis of rotation that is parallel to the first axis of rotation and a second surface that lies on a parabola having a focus that coincides with one of the foci of the ellipse; and

a mirror positioned to adjust an optical axis of a laser beam entering the telescope parallel to an optical axis of a laser beam exiting the telescope.

16. (Previously presented) A telescope of claim 15, wherein the second axis of rotation is collinear with the first axis of rotation.

17. (Previously presented) A telescope of claim 15, wherein the telescope is adapted for movement parallel to the optical axis of the laser beam that enters the telescope without altering an alignment of the laser beam entering the telescope.

18. (Previously presented) A telescope of claim 15, wherein the ellipsoidal mirror and the paraboloidal mirror are fixed in position relative to each other.

19. (Previously presented) A telescope of claim 18, further comprising a common carrier element upon which the ellipsoidal mirror and the paraboloidal mirror are mounted in a fixed relationship to each other.

20. (Previously presented) A telescope of claim 15, wherein the mirror positioned to adjust an optical axis of a laser beam entering the telescope is a planar mirror.

21. (New) The laser processing machine of claim 9, wherein the ellipsoidal mirror has a mirror surface shaped as an ellipsoidal segment.

22. (New) The laser processing machine of claim 9, wherein the ellipsoidal mirror is concave.

23. (New) The laser processing machine of claim 9, wherein the paraboloidal mirror is convex.

24. (New) The laser processing machine of claim 9, wherein the paraboloidal mirror is concave.

25. (New) A telescope of claim 15, wherein the ellipsoidal mirror has a mirror surface shaped as an ellipsoidal segment.

26. (New) A telescope of claim 15, wherein the ellipsoidal mirror is concave.

27. (New) A telescope of claim 15, wherein the paraboloidal mirror is convex.

28. (New) A telescope of claim 15, wherein the paraboloidal mirror is concave.